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## IV. AMENDMENTS TO THE CLAIMS

(Currently Amended) A plasma cleaning device comprising:

 a chamber for cleaning a process target disposed therein with a plasma,

the chamber having an exhaust mechanism evacuating the chamber to a reduced pressure therein lower than the atmospheric pressure;

a process gas introducing mechanism for introducing a process gas into the chamber;

opposite electrodes of a pair of an active electrode and an earth <u>plate</u> electrode grounded which are housed in the chamber;

a plasma generating power supply connected to the active electrode for supplying a power supply for use in generating the plasma in the chamber;

a disposing position of the process target for disposing the process target outside a space between the opposite electrodes; and

an electrically conductive path connected to the process target.

- 2. (Original) The plasma cleaning device according to claim 1, wherein the disposing position of the process target is at the other side of the earth electrode from the active electrode.
- 3. (Original) The plasma cleaning device according to claim 1, wherein the electrically conductive path is provided with an auxiliary power supply applying a potential to the process target.
- 4. (Original) The plasma cleaning device according to claim 3, wherein the auxiliary power supply is a DC power supply.
- 5. (Original) The plasma cleaning device according to claim 4, wherein an output potential of the DC power supply is variable.

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6. (Original) The plasma cleaning device according to claim 3, wherein the auxiliary power supply is an AC power supply.

- 7. (Original) The plasma cleaning device according to claim 3, wherein a resistor is connected between the auxiliary power supply and the process target.
- 8. (Original) The plasma cleaning device according to claim 3, wherein a diode is connected between the auxiliary power supply and the process target so that the process target side thereof is the anode thereof.
- 9. (Original) The plasma cleaning device according to claim 3, wherein a series circuit of a resistor and a diode is connected between the auxiliary power supply and the process target, the diode being connected so that the process target side thereof is the anode thereof.
- 10. (Original) The plasma cleaning device according to claim 3, wherein the auxiliary power supply is provided with a protective circuit against a current flowing thereinto from the process target.
- 11. (Original) The plasma cleaning device according to claim 10, wherein the protective circuit is a resistor connected in parallel to the auxiliary power supply.
- 12. (Original) The plasma cleaning device according to claim 10, wherein the protective circuit is a parallel circuit of a resistor and a capacitor connected in parallel to the auxiliary power supply.
- 13. (Original) The plasma cleaning device according to claim 1 or 2, wherein an insulating cover is disposed in the chamber,

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the insulating cover covering the pair of opposite electrodes and the disposing position of the process target,

and the insulating cover having an opening through which a process gas flows.

14. (Original) The plasma cleaning device according to claim 1 or 2, wherein plural sets of the pair of opposite electrodes and the disposing position of the process target are provided in a common chamber,

a space in the chamber is partitioned into subspaces for the sets so that a plasma is generated by each of the sets in a corresponding subspace independently of the other sets, and

the electrically conductive path is also connected to the process target of each of the sets.

- 15. (Original) The plasma cleaning device according to claim 14, wherein the active electrode of each of the sets is connected to the plasma generating power supply through a corresponding resistor in parallel each other.
- 16. (Original) The plasma cleaning device according to claim 1 or 2, wherein the process gas is air.
- 17. (Original) The plasma cleaning device according to claim 1 or 2, wherein an inlet port for the process gas is provided to a vent pipe of the chamber.
- 18. (Original) The plasma cleaning device according to claim 1 or 2, further comprising a reflecting electrode in an electrically floating state at the other side of the active electrode from the earth electrode.